

ORDINANCE NO. 99.26

**AN ORDINANCE OF THE CITY
COUNCIL OF THE CITY OF
TEMPE, ARIZONA, AMENDING
CHAPTER 14 OF THE TEMPE
CITY CODE RELATING TO
FIRE PREVENTION AND
PROTECTION BY ADOPTING
THE 1997 EDITION OF THE
UNIFORM FIRE CODE,
VOLUMES I AND II, WITH
CERTAIN AMENDMENTS
THERE TO.**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA, as follows:

Section 1. That Section 14-16 of the Tempe City Code is hereby amended to read as follows:

Sec. 14-16. Adopted; where filed.

That certain document known as the Uniform Fire Code, ~~1988 Edition, and Uniform Fire Code Standards, 1988 Edition,~~ 1997 EDITION, VOLUMES I AND II, which ~~has~~ HAVE been published jointly in book form by the INTERNATIONAL FIRE CODE INSTITUTE, Western Fire Chiefs Association, ~~Inc.~~, and the International Conference of Building Officials, together with all the appendices thereto, three (3) copies of which are on file in the office of the city clerk, and this same code ~~and standards are~~ IS hereby referred to, adopted and made a part hereof, as if fully set out in this article.

Section 2. That Section 14-41 of the Tempe City Code is hereby repealed.

Section 3. That new Section 14-41 of the Tempe City Code is hereby added as follows:

DIVISION 2. UNIFORM FIRE CODE AMENDMENTS

Sec. 14-41. Legal status.

The provisions of this division are amendments to the Uniform Fire Code as now or hereafter adopted in § 14-16. All sections, chapters, etc., in this division other than this section shall be considered to be both a part of this code and a part of the Uniform Fire Code. Material encased in brackets ([]) shall be considered to be a part of this code only, and not a part of the Uniform Fire Code. Material encased in quotation marks (" ") shall be considered to be a part of this code and a part of the Uniform Fire Code. Except for the sections reserved at the end of this division, provisions in this division shall be cited as chapter 14, article II, division 2 [insert reference to section, etc.] of the city code.

Sec. 103. Inspection and enforcement.

[§ 103.1.4 is hereby repealed.]

Sec. 105. Permits.

[§ 105.1 is hereby amended as follows:]

"105.1. *Scope.* The authority having jurisdiction may require permits as provided for in § 105.8 of this code."

Sec. 207-F. Definitions.

[§ 207 is hereby amended by adding the definition of "fraternity and sorority houses" as follows:]

"*Fraternity and sorority houses* are any building used in whole or in part as a dwelling and occupied by and maintained exclusively or primarily for college, university or professional school students who are affiliated with a social, honorary or professional organization recognized currently or in the past by a college, university or professional school."

Sec. 1003. Fire-extinguishing systems.

[§ 1003.1.1 is hereby amended as follows:]

"1003.1.1. *General.* All fire-extinguishing systems shall be installed in accordance with the building code."

"Fire hose threads used in connection with fire-extinguishing systems shall comply with the standards of the fire department.

"The location of fire department hose connections shall be approved by the fire department.

"In buildings used for high-piled combustible storage, fire protection shall be in accordance with Article 81."

[§ 1003.1.2 is hereby amended as follows:]

"1003.1.2. *Standards.* Fire-extinguishing systems shall comply with the building code.

"Combustible pipe, tubing and fittings shall be listed and labeled and shall be installed in accordance with their listing. Combustible systems shall be limited to Type II-N, III-N and V-N construction.

"EXCEPTIONS: 1. Fire-extinguishing systems not covered by the building code shall be approved and installed in accordance with the fire code.

"2. Automatic sprinkler systems may be connected to the domestic water-supply main when approved by the building official, provided the domestic water supply is of adequate pressure, capacity and sizing for the combined domestic and sprinkler requirements. In such case, the sprinkler system connection shall be made between the public water main or meter and the building shutoff valve, and there shall not be intervening valves or connections. The fire department connection may be omitted when approved by the fire department.

"3. Automatic sprinkler systems in Group R, Division 4 occupancies may be in accordance with the building code or NFPA 13D-1994 editions provided there are no deletions of sprinklers in bathrooms, closets containing mechanical or electrical equipment, foyers, garages, carports, accessible areas under interior stairs and landings used for storage or living purposes."

[§ 1003.1.3 is hereby amended as follows:]

"1003.1.3. *Modifications.* When residential sprinkler systems are provided, area increases for yards or automatic sprinkler systems as specified in the building code and exceptions to or reductions in code requirements based on the installation of an automatic fire-extinguishing system are not allowed."

[§ 1003.2.1 is hereby amended as follows:]

"1003.2.1. *General.* An automatic fire-extinguishing system shall be installed in the occupancies and locations as set forth in the building code.

"Each portion of a building separated by area separation walls complying with the building code into areas not exceeding the limitations specified in this section need not be equipped with an automatic sprinkler system.

"For provisions on special hazard chemicals and hazardous materials, see the § 1001.9 and Articles 79, 80 and 81."

[§ 1003.2.2 is hereby amended as follows:]

"1003.2.2. *All occupancies except Group R, Division 3 and Group U occupancies.* Except for Group R, Division 3 and Group U occupancies, an automatic sprinkler system shall be installed:

"1. In every story or basement of all buildings when the floor area exceeds one thousand five hundred (1,500) square feet (139.4 m²) and there is not provided at least twenty (20) square feet (1.86 m²) of opening entirely above the adjoining ground level in each fifty (50) lineal feet (15 240 mm) or fraction thereof of exterior wall in the story or basement on at least one side of the building. Openings shall have a minimum dimension of not less than thirty (30) inches (762 mm). Such openings shall be accessible to the fire department from the exterior and shall not be obstructed in a manner that firefighting or rescue cannot be accomplished from the exterior.

"When openings in a story are provided on only one side and the opposite wall of such story is more than seventy-five (75) feet (22 860 mm) from such openings, the story shall be provided with an approved automatic sprinkler system, or openings as specified above shall be provided on

at least two (2) sides of an exterior wall of the story.

"If any portion of a basement is located more than seventy-five (75) feet (22,860 mm) from openings required in this section, the basement shall be provided with an approved automatic sprinkler system.

"2. At the top of rubbish and linen chutes and in their terminal rooms. Chutes extending through three (3) or more floors shall have additional sprinkler heads installed within such chutes at alternate floors. Sprinkler heads shall be accessible for servicing.

"3. In rooms where nitrate film is stored or handled. See also Article 33.

"4. In protected combustible fiber storage vaults as defined in the fire code. See also Article 28.

"5. Throughout any Group R, Division 1 occupancy more than one story in height, and other occupancies more than two (2) stories in height.

"The automatic sprinkler system may be used as a substitute for one-hour fire-resistive construction in accordance with the building code.

"Where the automatic sprinkler system is not used as a substitute for one-hour fire-resistive construction pursuant to the building code, and the building is sprinklered throughout, the area or height increase specified in the building code is permitted."

[§ 1003.2.3.1 is hereby amended as follows:]

"1003.2.3.1. *General*. An automatic sprinkler system shall be installed throughout any Group A occupancy and accessory uses when the total floor area including any basement or mezzanine exceeds five thousand (5,000) square feet (465 m²) and any Group A, Division 2.1 drinking or dining establishment. The automatic sprinkler system may be used as a substitute for one-hour fire-resistive construction in accordance with the building code.

"EXCEPTION: Group A, Division 4 occupancies with usable floor area under a roof or floor above of five thousand (5,000) square feet (465 m²) or less need not be sprinklered.

"Where the automatic sprinkler system is not used as a substitute for one-hour fire-resistive construction pursuant to the building code, and the building is sprinklered throughout, the area or height increase specified in the building code is permitted."

[§ 1003.2.4.1 is hereby amended as follows:]

"1003.2.4.1. *General*. An automatic sprinkler system shall be installed throughout any Group E occupancy and accessory uses when the total floor area including any basement or mezzanine exceeds five thousand (5,000) square feet (465 m²). The automatic sprinkler system may be used as a substitute for one-hour fire-resistive construction in accordance with the building code.

"Where the automatic sprinkler system is not used as a substitute for one-hour fire-resistive construction pursuant to the building code, and the building is sprinklered throughout, the area or height increase specified in the building code is permitted."

[§ 1003.2.6.4. is hereby added as follows:]

"1003.2.6.4. *Group H, Division 5*. An automatic sprinkler system shall be installed throughout any Group H, Division 5 occupancy and accessory uses when the total floor area including any basement or mezzanine exceeds five thousand (5,000) square feet (465 m²). The automatic sprinkler system may be used as a substitute for one-hour fire-resistive construction in accordance with the building code.

"Where the automatic sprinkler system is not used as a substitute for one-hour fire-resistive construction pursuant to the building code, and the building is sprinklered throughout, the area or height increase specified in the building code is permitted."

[§ 1003.2.8 is hereby amended as follows:]

"1003.2.8. *Group B, F, M or S occupancies*. An automatic sprinkler system shall be installed throughout any Group B, F, M or S occupancy and accessory uses when the total floor area including any basement or mezzanine exceeds five thousand (5,000)

square feet (465 m²). The automatic sprinkler system may be used as a substitute for one-hour fire-resistive construction in accordance with the building code.

"An automatic sprinkler system shall be installed in woodworking occupancies over two thousand five hundred (2,500) square (225 m²) feet in area.

"Where the automatic sprinkler system is not used as a substitute for one-hour fire-resistive construction pursuant to the building code, and the building is sprinklered throughout, the area or height increase specified in the building code is permitted."

[§ 1003.2.9 is hereby amended as follows:]

"1003.2.9.1. *Group R, Division 1 occupancies.* An automatic sprinkler system shall be installed throughout any Group R, Division 1 occupancy and accessory uses more than one story in height or when the total floor area including basements and mezzanines exceeds two thousand (2,000) square feet (186 m²). Residential or quick-response standard sprinkler heads shall be used in the dwelling unit and guest room portions of the building.

"For Group R, Division 1 occupancies not exceeding two (2) stories in height, the automatic sprinkler system may be used as a substitute for one-hour fire-resistive construction in accordance with the building code.

"All new or existing structures, utilized, in whole or in part, as a fraternity or sorority house, as defined in § 207-F of this code, shall be equipped with an automatic fire extinguishing system in accordance with the building code. Existing fraternity and sorority houses shall come into compliance no later than twenty-four (24) months upon notification of requirements. If an existing structure is proposed to be converted to use as a fraternity or sorority house, compliance with this section shall be required prior to issuance of a certificate of occupancy.

"All existing R-1 occupancies require automatic fire extinguishing systems in accordance with the building code, when any floor is more than fifty (50) feet above the lowest level of fire department vehicle access. Installation of automatic fire extinguishing systems in existing R-1 occupancies shall commence within thirty-six (36) months of notification of the requirement. Installation must be completed within sixty (60) months of notification.

"1003.2.9.2. *Group R, Division 4 occupancies.* An automatic sprinkler system shall be installed throughout any Group R, Division 4 occupancy."

[§ 1003.2.10 is hereby added as follows:]

"1003.2.10. *Additions.* An addition may be made to an existing building without installing an automatic sprinkler system provided the total area of the existing building and the addition does not exceed the limitations specified in the building code. Whenever the total area of the existing building and the addition exceeds the limitations specified in the building code, an automatic sprinkler system shall be installed throughout.

"EXCEPTIONS: 1. The existing building need not be equipped with an automatic sprinkler system provided the addition complies with the requirements of the building code as amended and is separated by an area separation wall from the existing building.

"2. The existing building and additions need not be equipped with an automatic sprinkler system provided the additions within a twelve (12) month period do not exceed four hundred (400) square feet (37.16 m²) to a Group R, Division 1 occupancy, nor one thousand (1,000) square feet (92.9 m²) to Groups A, B, E, F, M, or S occupancy and the total area of the existing building and additions does not exceed the allowable area specified in the building code.

"Whenever the number of stories of an existing building is increased above the limits of the building code, an automatic sprinkler system shall be installed throughout."

[§ 1003.2.11 is hereby added as follows:]

"1003.2.11. *Change of use.* Whenever a change is made in the character of occupancies or use of any building which would place the building in a different division of the same group of occupancy or in a different group of occupancies, such building shall be made to comply with the building code as amended.

"EXCEPTIONS: 1. Whenever a change of use is made to a portion of a building, the entire building need not comply with the requirements of the building code as amended provided:

"1.1. The building so altered shall not exceed the height, number of stories or area allowed at the time the building was permitted, and

"1.2. The change in use complies with the requirements of the building code as amended.

"2. A change of use of any building or portion thereof within one of the following:

"2.1. Group B; Group F, Division 1 except woodworking occupancies; Group M and Group S, Division 1, or

"2.2. Group F, Division 2 and Group S, Division 2, or

"2.3. Group S, Division 4 and Group S, Division 5."

[§ 1003.3.2 is hereby amended as follows:]

"1003.3.2. *Alarms.* An approved audible sprinkler flow alarm shall be provided on the exterior of the building in an approved location."

Sec. 1004. Standpipes.

[§ 1004.1.1 is hereby amended as follows:]

"1004.1.1. *General.* All fire-extinguishing systems shall be installed in accordance with the building code.

"Fire hose threads used in connection with fire-extinguishing systems shall comply with the standards of the fire department.

"The location of fire department hose connections shall be approved by the fire department.

"In buildings used for high-piled combustible storage, fire protection shall be in accordance with Article 81."

[Sec.] Table 1004-A -- Standpipe required systems.

[Table 1004-A is hereby amended as follows:]

"Table 1004-A -- Standpipe Required Systems

OCCUPANCY	NONSPRINKLERED BUILDING ¹		SPRINKLERED BUILDING ^{2, 3}	
	Standpipe Class	Hose Requirement	Standpipe Class	Hose Requirement
1. Occupancies exceeding 150 ft. in height and more than one story	III	Yes	III	No
2. Occupancies 4 stories or more but less than 150 ft. in height, except Group R, Div. 3 ⁷	[I and II ⁴] (or III)	Yes ⁵	I (or III)	No
3. Group A Occupancies with occupant load exceeding 1,000 ⁶	II	Yes	No Requirement	No
4. Group A, Div. 2.1 Occupancies over 5,000 square feet in area used for exhibition	II	Yes	II	Yes
5. Groups I; H; B; S; M; F; Division 1 Occupancies less than 4 stories in height but greater than 20,000 square feet per floor ⁷	II ⁴	Yes	No Requirement	No
6. Stages more than 1,000 square feet in area	II	No	III	No

¹ Except as otherwise specified in Item No. 4 of this Table, Class II standpipes need not be provided in basements having an automatic fire-extinguishing system throughout.

² Combined systems with their related water supplies may be used in sprinklered buildings.

³ Portions of otherwise sprinklered buildings which are not protected by automatic sprinklers shall have Class II standpipes installed as required for the unsprinklered portions.

⁴ In open structures where Class II standpipes may be damaged by freezing, the building official may authorize the use of Class I standpipes which are located as required for Class II standpipes.

⁵ Hose is required for Class II standpipes only.

⁶ Class II standpipes need not be provided in assembly areas used solely for worship.

⁷ For the purposes of this Table, occupied roofs of parking structures shall be considered an additional story. In parking structures, a tier is a story."

Sec. 1005. Basement pipe inlets.

[§ 1005 is hereby repealed.]

Sec. 1007. Fire alarm systems.

[§ 1007.2.9.1.1 is hereby amended as follows:]

"1007.2.9.1.1. General. Group R, Division 1 occupancies shall be provided with an approved fire alarm system in apartment houses three (3) or more stories in height and containing sixteen (16) or more dwelling units, in hotels three (3) or more stories in height and containing twenty (20) or more guest rooms and in congregate residences three (3) or more stories in height and having on occupant load of twenty (20) or more. A fire alarm and communication system shall be provided in Group R, Division 1 occupancies located in a high-rise building.

"The alarm signal shall be a distinctive sound which is not used for any other purpose other than the fire alarm. Alarm-signaling devices shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by fifteen (15) decibels minimum, or exceeds any maximum sound level with a duration of thirty (30) seconds minimum by five (5) decibels minimum, whichever is louder. Sound levels for alarm signals shall be one hundred twenty (120) decibels maximum.

"For the purpose of this section, area separation walls shall not define separate buildings."

[§ 1007.2.9.2.2 is hereby amended as follows:]

1007.2.9.2.2. Installation. Approved single-station smoke detectors shall be installed in existing dwelling units, congregate residences, and hotel and lodging house guest rooms.

"Smoke detectors shall be installed in all existing nonowner-occupied dwellings, dwelling units and in all apartment houses in accordance with the building code. The owner shall be responsible for the installation, replacing the battery annually (if battery operated), and maintaining appropriate records of required smoke detectors. Upon termination of a tenancy in any rental unit, the owner or owner's agent shall insure that any required smoke detectors are operational prior to reoccupancy of the unit. The occupant shall be responsible for periodic maintenance and reporting, in writing, to the owner or owner's agent of any operational defects of required smoke detectors."

Sec. 8001. General.

[§ 8001.5.1 is hereby amended as follows:]

"8001.5.1. General. Contained or uncontained hazardous materials shall not be released or placed into a sewer, storm drain, ditch, drainage canal, lake, river or tidal waterway, public or private waste container, or upon the ground, sidewalk, street, highway or into the atmosphere.

"EXCEPTION: Materials released or stored in accordance with federal, state or local governing regulations or permits of the jurisdictional Air Quality Management Board with a National Pollutant Discharge Elimination System Permit, with waste discharge requirements established by the jurisdictional Water Quality Control Board or with local sewer pretreatment requirements for publicly owned treatment works."

Sec. 8102. General fire-protection and life-safety features.

[§ 8102.7.2 is hereby amended as follows:]

"8102.7.2 Types of vents. Smoke and heat vents shall be of an approved type and shall have the capability of being opened by an approved manual operation."

[Sec.] Table 81-A - General fire-protection and life-safety requirements

[Table 81-A is hereby amended as follows:]

"Table 81-A - General fire-protection and life-safety requirements

[illegible]

COMMODITY CLASS	SIZE OF HIGH-PILED STORAGE AREA ¹ (square feet) (See Section 8102.2 and 8102.4)	ALL STORAGE AREAS (See Sections 8102, 8103 and 8104) ²						SOLID-PILED STORAGE, SHELF STORAGE AND PALLETIZED STORAGE (See Section 8103.3)		
		Automatic Fire-extinguishing System (See Section 8102.4)	Fire-detection System (See Section 8102.5)	Building Access (See Section 8102.6)	Smoke and Heat Removal (See Section 8102.7)	Curtain Boards (See Section 8102.8)	Small Hose Valves and Stations (See Section 8102.9)	Maximum Pile Dimension ³ (feet)	Maximum Permissible Storage Height ⁴ (feet)	Maximum Pile Volume (cubic feet)
	x0.0929 for m ²							x 3048 for mm		x0.0283 for m ³
I-IV	0-500	NR ¹	NR	NR ⁵	NR	NR	NR	NR	NR	NR
	501-2,500	NR ¹	Yes	NR ⁵	NR	NR	NR	100	40	100,000
	2,501-12,000 Public accessible	Yes	NR	NR ⁵	NR	NR	NR	100	40	400,000
	2,501-12,000 Nonpublic accessible (Option 1)	Yes	NR	NR ⁵	NR	NR	NR	100	40	400,000
	2,501, 12,000 Nonpublic accessible (Option 2)	NR ¹	Yes	Yes	Yes	Yes	Yes	100	30 ⁷	200,000
	12,001-20,000	Yes	NR	Yes	Yes	NR	Yes	100	40	400,000
	20,001-500,000	Yes	NR	Yes	Yes	NR	Yes	100	40	400,000
	Greater than 500,000 ⁸	Yes	NR	Yes	Yes	NR	Yes	100	40	400,000
High hazard	0-500	NR ¹	NR	NR ⁵	NR	NR	NR	50	NR	NR
	501-2,500 Public accessible	Yes	NR	NR ⁵	NR	NR	NR	50	30	75,000
	501-2,500 Nonpublic accessible (Option 1)	Yes	NR	NR ⁵	NR	NR	NR	50	30	75,000
	501-2,500 Nonpublic accessible (Option 2)	NR ¹	Yes	Yes	Yes	Yes	Yes	50	20	50,000
	2,501-300,000	Yes	NR	Yes	Yes	NR	Yes	50	30	75,000
	300,001-500,000 ^{8,9}	Yes	NR	Yes	Yes	NR	Yes	50	30	75,000

NR = Not required.

¹ When fire sprinklers are required for reasons other than Article 81, the portion of the sprinkler system protecting the high-piled storage area shall be designed and installed in accordance with Sections 8103 and 8104.

² For aisles, see Section 8102.10

³ Piles shall be separated by aisles complying with Section 8102.10.

⁴ For storage in excess of the height indicated, special fire protection shall be provided in accordance with Footnote 8 when required by the chief. See also Articles 79 and 88 for special limitations for flammable and combustible liquids and aerosols.

⁵ Section 902.2 shall apply for fire apparatus access.

⁶ Repealed.

⁷ For storage exceeding 30 feet (914 mm) in height, Option 1 shall be used.

⁸ Special fire-protection provisions such as, but not limited to, fire protection of exposed steel columns; increased sprinkler density; additional in-rack sprinklers, without associated reductions in ceiling sprinkler density; or additional fire department hose connections shall be provided when required by the chief.

⁹ High-piled storage areas shall not exceed 500,000 square feet (46 451.5m²). A two-hour area separation wall shall be used to divide high-piled storage exceeding 500,000 square feet (46 451.5m²) in area."

[Sec.] Table 81-B. Requirements for curtain boards and smoke venting.

[Footnote 2 of Table 81-B is hereby amended as follows:]

"2. When areas of buildings used for high-piled combustible storage are equipped with automatic fire extinguishing systems, the curtain boards within these areas are not required."

[Sec.] Appendix I-A. Life-safety requirements for existing buildings other than high-rise.

[Appendix I-A is hereby repealed.]

[Sec.] Appendix I-B. Life-safety requirements for existing high-rise buildings.

[Appendix I-B is hereby repealed.]

[Sec.] Appendix III-D. Basement pipe inlets.

[Appendix III-D is hereby repealed.]

Secs. 14-42-14-49. Reserved.